

Cool Drive U339 Pro BB23 Series

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Revision History

| Revision | Date | History | Remark |
|----------|-----------|--------------|--------|
| A.0 | 09/08 '06 | New Creation | |

Important!! Please make sure the driver matches the part number on your pen drive before you download.

Software AP System Requirements. One of following operation systems: Windows 98/98SE/Windows ME/Windows 2000/Windows XP

The advertised memory capacity of this device represents unformatted capacity. Please note that once formatted and due to variations in flash module block limitations, the functional storage space will be lower than the advertised capacity.

"PQI reserves the right to make changes without notification when fit, form, function, quality and reliability are not affected. The data sheets do not constitute contract documents and should not be considered part of the specification for purposes of any warranty."

1. Introduction to U339 Pro

The **U339 Pro** gives you portability and security to offer you a peace of mind. Compact futuristic design in metallic casing. The PQI Cool Drive **U339 Pro** also comes with USB Notebook – Personal File Manager software which is design for data security and easy management of your personal data

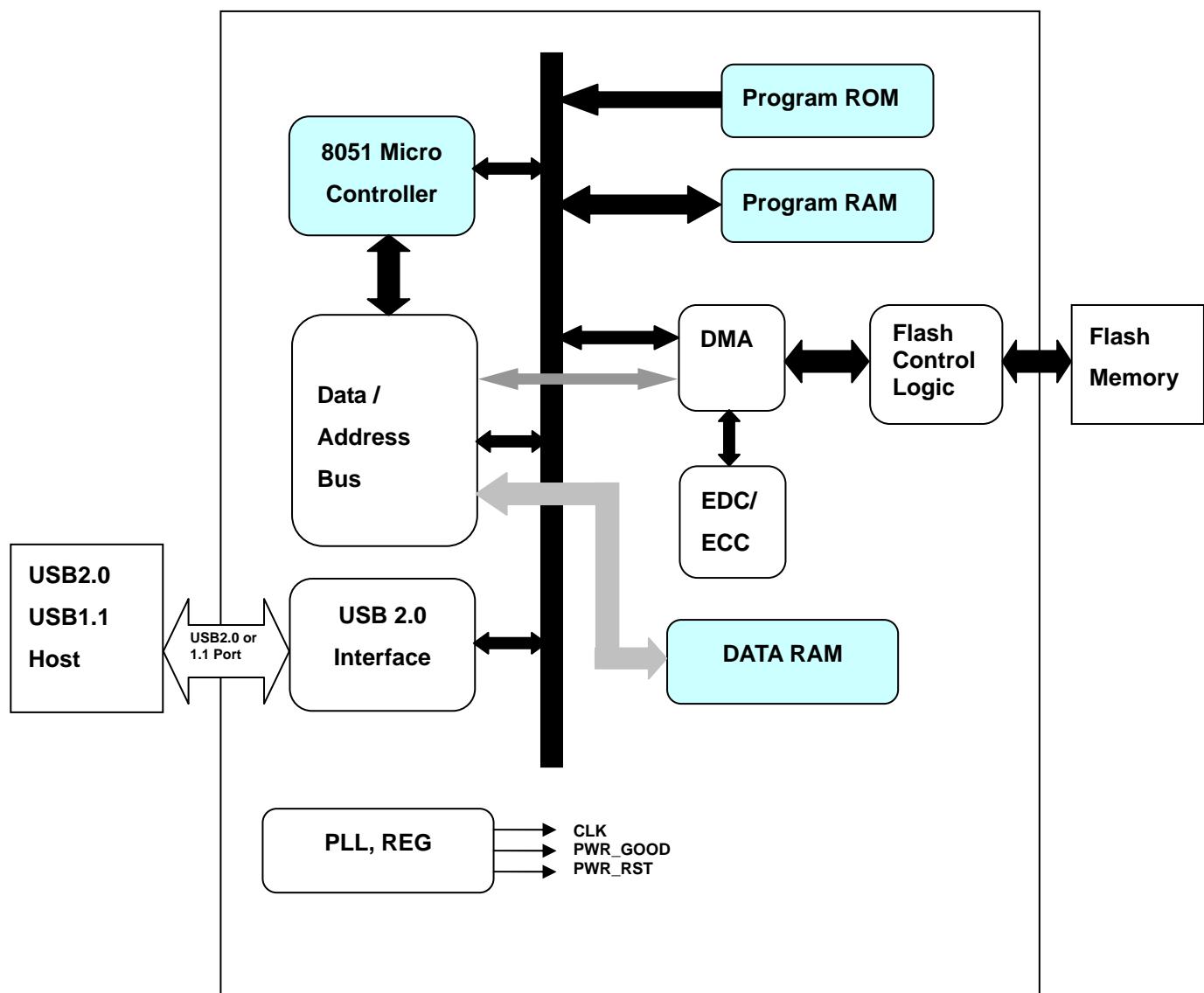
2. Main Features Overview

- ♦ Ultra transfer rate: Read up to 25MB/sec
- ♦ Compact metallic casing with futuristic design
- ♦ Mobile USB flash drive, USB 2.0 compatible
- ♦ Hot swappable, USB Plug & Play compatible
- ♦ LED indicator with three modes: Busy, waiting, and off
- ♦ Multimedia and data storage
- ♦ Includes software USB Notebook – Personal File Manager software which is design for data security and easy management of your personal data featuring

3. Product Specification

| | | |
|-----------------------------|--|---------------|
| USB Interface | High-speed USB 2.0 interface; backward compatible with USB 1.1 | |
| NAND Flash Interface | Integrated ECC circuits for 4-bit error correction | |
| OS Support | No drive is required for Windows ME, 2000,XP or Mac OS 9.x | |
| Environment | | |
| Temperature | Operating | 0°C to 65°C |
| | Non-Operating | -20°C to 75°C |
| Vibration | Operating | 0.2G |
| | Non-Operating | 15G |
| Shock resistant | Operating | 150G |
| | Non-Operating | 1000G |
| Configuration | | |
| Capacity | 128MBytes ~ 4GBytes | |
| Reliability | | |
| MTBF(@25°C) | 1,000,000 hours | |
| Power Requirement | | |
| Voltage | DC 3.3/5V ± 10% | |
| Power Consumption | | |
| Read | <100mA | |
| Write | <120mA | |
| Standby | <100mA | |
| Un-configuration | <100mA | |
| Suspend | <1.5mA | |

4. Block Diagram



5. Absolute Maximum Ratings

| Symbol | Parameter | Min | Max | Unit |
|----------|-------------------------------|------|-----|------|
| Tstorage | Storage Temperature | -20 | 75 | °C |
| Ta | Ambient Operating Temperature | 0 | 65 | °C |
| Vcc3 | 3.3V Supply Voltage | -0.3 | 3.6 | V |
| Vcc18 | 1.8V Supply Voltage | -0.3 | 2 | V |
| Vin3.3 | 3.3V Buffer Input Voltage | -0.3 | 3.6 | V |
| Vin3/5 | 3.3V/5V Buffer Input Voltage | -0.3 | 5 | V |
| Vin1.8 | 1.8V Buffer Input Voltage | -0.3 | 2 | V |

6. DC Characteristics

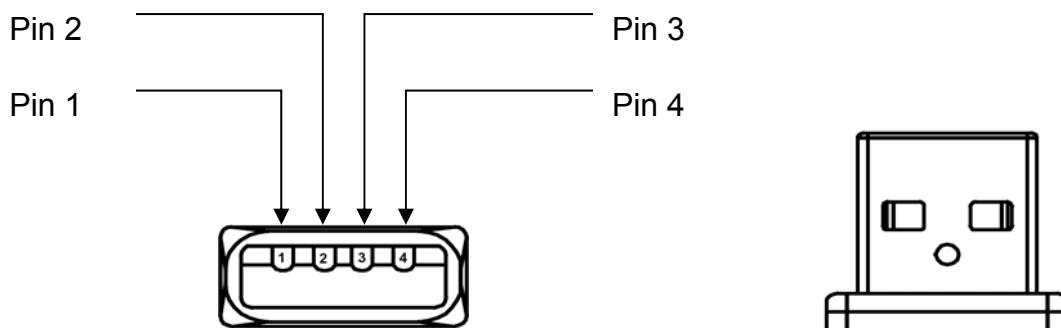
| Symbol | Parameter | Min. | Typical | Max. | Units |
|-------------------|--|------|---------|------|-------|
| V _{DD} | Supply voltage for VCC3 or VCC3A | 3.0 | 3.3 | 3.6 | V |
| V _{DD18} | Regulator output voltage for VCC or VCCA | 1.62 | 1.8 | 1.98 | V |
| V _{IL} | Input Low Voltage | -0.5 | | 0.8 | V |
| V _{IH} | Input High Voltage | 2.0 | | | V |
| V _{OL} | Output Low Voltage (IOL=4mA) | | | 0.4 | V |
| V _{OH} | Output High Voltage (IOH=4mA) | 2.4 | | | V |
| C _{IN} | Input pin capacitance | | | 10 | pF |
| I _{DD} | Supply current | | 50 | | mA |
| I _{sus} | Suspend current (D+1.5KΩ) | | | 300 | uA |

7. Recommended Operating Conditions

| Symbol | Parameter | Min. | Typ. | Max. | Units |
|-------------------|------------------------|------|------|-----------|-------|
| V _{CC33} | Power Supply Voltage | 3.0 | 3.3 | 3.3 | V |
| V _{IN} | Input Voltage | 0 | Vcc | Vcc + 0.3 | V |
| V _{CC25} | Internal Power Support | 2.25 | 2.50 | 2.75 | V |

8. Pin Assignments

| Pin No. | Pin Name | Function |
|---------|----------|---|
| 1 | VCC | USB power input |
| 2 | USB D- | USB differential signal |
| 3 | USB D+ | The pairs are used to transmit Data/Address/Command |
| 4 | VSS | Ground |



9. Physical Specifications

9.1 Dimensions:

- 9.1.1 Height: 68.05mm
- 9.1.2 Width: 18.50mm
- 9.1.3 Depth: 8.99mm
- 9.1.4 Weight: 12.6g ± 1g

9.2 Outline of top view

